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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/032,278	12/31/2001	Jong-Hoon Yi	053785-5047	4055

9629 7590 11/01/2004

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EXAMINER
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VESPERMAN, WILLIAM C

ART UNIT	PAPER NUMBER
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2813

DATE MAILED: 11/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

10/032,278

**Applicant(s)**

YI ET AL.

**Examiner**

William C. Vesperman

**Art Unit**

2813

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 21 July 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) 6-22 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) 1 is/are rejected.
- 7) ☒ Claim(s) 2-5 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12/31/2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
  - 2) ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

1. This action is in response to applicant's election of 7/21/2004.

### ***Election/Restrictions***

2. Applicant's election of Claims 1 – 5 without traverse of 7/21/2004 in the reply filed on July 26, 2004 is acknowledged.

Claims 6 – 22 are withdrawn without traverse.

The examiner notes that Korean Patent Application No. 2001 – 26227 was submitted and received as indicated in the attached PTOL-326 document.

### ***Claim Objections***

3. Claims 2, 3 and 4 are objected to because of the following informalities.

In order to clarify the claims, it is recommended that the claims be changed with the following modifications.

In regards to Claim 2, line 3, after "layers" delete "from a surface of the substrate" and insert -- as measured from the upper surface of the substrate --.

In regards to Claim 3, line 3, after "regions" delete "from a surface of the substrate" and insert -- as measured from the upper surface of the substrate --.

In regards to Claim 4, after "identification" delete "from a surface of the substrate" and insert -- as measured from the upper surface of the substrate --.

Appropriate correction is required.

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yu (US 6,734,931) in view of Minoura (JP 40810653A).

6. In regards to Claim 1, Yu teaches (Figures 3 – 5, columns 3 – 5, lines 64 – 31) a color filter substrate for a liquid crystal display device, comprising a substrate (212); a plurality of black matrix regions (213) on the substrate; a plurality of color filter layers (215), each disposed between adjacent ones of the plurality of black matrix regions; a panel identification (219) at an edge of the substrate spaced apart from the plurality of black matrix regions, the panel identification and the plurality of black matrix regions including a same material; an overcoat layer on the plurality of color filter layers; and a common electrode (ITO) on the overcoat layer.

Yu does not teach that the panel identification and the plurality of color filter layers are formed of the same material.

Minoura teaches (Figures 1 – 6, abstract and constitution) a plurality of black matrix regions (5) adjacent to the color filters (7) and that the identification mark (6) can be formed: (1) at the same time with the colored layers (7) and (2) spaced apart from the plurality of black matrix regions at the edge of the substrate.

Therefore, it would have been obvious to modify the liquid crystal device as taught by Yu and form the panel identification and the plurality of color filter layers of the same material as taught by Minoura.

One would be motivated to form the panel identification and the plurality of color filter layers of the same material as taught by Minoura in order for quality control to detect a problem with the color filters by monitoring the panel identification.

### ***Allowable Subject Matter***

7. Claim 5 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

8. The following is a statement of reasons for the indication of allowable subject matter. The prior art does not teach or suggest in combination with the other claimed limitations, that an uppermost surface of each of the plurality of black matrix regions, an uppermost surface of each of the plurality of color filter layers, and an uppermost surface of the panel identification are all coplanar.

### ***Conclusion***

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Matsuyama et al. (US 5,633,739) teaches a color LCD composed of colored filters.

Yoshizawa (JP 02002192534A) teaches a method for manufacturing a microlens array.

Takano (JP 02002311226A) teaches a method for manufacturing color filter for a LCD.


Kiguchi et al. (US 5,952,129) teaches a method of making a color filter.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to William C. Vesperman whose telephone number is 571-272-1701. The examiner can normally be reached on Mon. - Fri., 8:00 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead, Jr. can be reached on 571-272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
CARL WHITEHEAD, JR.  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2800

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October 26, 2004